## Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

## **Listing of Claims**

1. (Previously presented) A composition comprising:

a buffer effective for maintaining pH of aqueous composition at greater than or equal to about 6; and

an organic anion of formula I: R(X)<sub>m</sub>(Y)<sub>n</sub>; in which:

R is alkyl, alkenyl, or alkynyl;

each X is independently carboxylate, phosphate, phosphonate, phosphinate, sulphate, sulphonate, thiocarboxylate, hydroxamate, or combination thereof;

each Y is independently amide, alcohol, ether, thiol, thioether, ester, thioester, borane, boric acid, or metal complex;

m is 1-7; and

n is 0 or greater;

the organic anion being effective to substantially decrease ring formation upon drying of a spot less than or equal to about 300  $\mu$ m diameter on a support.

- 2. (Original) The composition of claim 1, wherein each X is independently phosphate or sulfate.
  - 3. (Withdrawn) The composition of claim 1, wherein each Y is hydroxyl.
- 4. (Withdrawn) The composition of claim 1, wherein the organic anion of formula I has the structure of represented by formula II:

in which P represents an 4-7 members of cyclic backbone comprising carbon with up to one heteroatom.

- 5. (Withdrawn) The composition of claim 4, wherein each X is independently phosphate or sulfate.
  - 6. (Withdrawn) The composition of claim 4, wherein each Y is hydroxyl.
- 7. (Previously presented) The composition of claim 1, wherein the organic anion of formula I has the structure of represented by formula III:

$$Z [[Y]] \xrightarrow{Z} A$$

$$Z [[Y]] Z [[Y]]$$

in which:

8. (Previously presented) The composition of claim 7, wherein the organic anion is phytate.

- 9. (Currently amended) The composition of claim 1, further comprising a compound suitable for being immobilized on the support.
- 10. (Original) The composition of claim 9, wherein the compound comprises nucleic acid.
- 11. (Original) The composition of claim 10, wherein the nucleic acid comprises DNA, RNA, or mixture thereof.
- 12. (Original) The composition of claim 1, further comprising anionic or nonionic surfactant.
- 13. (Original) The composition of claim 12, wherein the anionic surfactant comprises sodium dodecyl sulfate.
- 14. (Original) The composition of claim 1, wherein the buffer comprises inorganic phosphate.
- 15. (Original) The composition of claim 14, wherein the inorganic phosphate comprises about 10 to about 200 mM sodium or potassium phosphate at pH of about 7 to about 10.
- 16. (Previously presented) A composition comprising: compound suitable for being immobilized on support; and organic anion of formula:  $R(X)_m(Y)_n$ ; in which:

R is alkyl, alkenyl, or alkynyl;

each X is independently carboxylate, phosphate, phosphonate, phosphinate, sulphate, sulphonate, thiocarboxylate, hydroxamate, or combination thereof;

each Y is independently amide, alcohol, ether, thiol, thioether, ester, thioester, borane, boric acid, or metal complex;

m is 1-7; and n is 0 or greater.

- 17. (Original) The composition of claim 16, wherein the compound comprises nucleic acid.
- 18. (Original) The composition of claim 17, wherein the nucleic acid comprises DNA, RNA, or mixture thereof.
- 19. (Previously presented) The composition of claim 16, wherein the organic anion of formula I has the structure of represented by Formula III:

$$Z [[Y]] \longrightarrow A Z$$

$$Z [[Y]] Z [[Y]]$$

in which:

A is -CH-OPO<sub>3</sub> or O.

- 20. (Previously presented) The composition of claim 19, wherein the organic anion is phytate.
- 21. (Original) The composition of claim 16, further comprising anionic surfactant.
  - 22. (Withdrawn) A composition comprising:

a buffer effective for maintaining pH of aqueous composition at greater than or equal to about 6; and

neutral hydrophilic polymer of Formula V:

in which, A is absent, CH<sub>2</sub> or O; n is about 100 to about 5000; and

B is -OH, -OC(O)CH<sub>3</sub>, -CONH<sub>2</sub>, -CONH<sub>R</sub>, -CONR<sub>2</sub>, -OCH<sub>3</sub>, -SH, -SCH<sub>3</sub>, -COOR, -COSR, borane, boric acid, sulfone, amine oxide, or mixtures thereof; the neutral hydrophilic polymer being effective to substantially decrease ring formation upon drying of a spot less than or equal to about 300 μm diameter on a support.

- 23. (Withdrawn) The composition of claim 22, wherein A is absent, n is about 600 to about 1300, and B is -OH.
- 24. (Withdrawn) The composition of claim 22, wherein the neutral hydrophilic polymer comprises polyvinyl alcohol.
- 25. (Withdrawn) The composition of claim 24, wherein the neutral hydrophilic polymer comprises and the polyvinyl alcohol comprises 88% hydrolyzed polyvinyl alcohol.
- 26. (Withdrawn) The composition of claim 24, wherein the neutral hydrophilic polymer comprises polyvinyl alcohol and the polyvinyl alcohol has a molecular weight of 31-51 kD.
- 27. (Withdrawn) The composition of claim 22, further comprising compound suitable for being immobilized on the support.
- 28. (Withdrawn) The composition of claim 27, wherein the compound comprises nucleic acid.

- 29. (Withdrawn) The composition of claim 28, wherein the nucleic acid comprises DNA, RNA, or mixture thereof.
- 30. (Original) The composition of claim 22, further comprising anionic or nonionic surfactant.
- 31. (Withdrawn) The composition of claim 30, wherein the anionic surfactant comprises sodium dodecyl sulfate.
- 32. (Withdrawn) The composition of claim 22, wherein the buffer comprises inorganic phosphate.
- 33. (Withdrawn) The composition of claim 32, wherein the inorganic phosphate comprises about 10 to about 200 mM sodium or potassium phosphate at pH of about 7 to about 10.
  - 34. (Withdrawn) A composition comprising: compound suitable for being immobilized on support; and neutral hydrophilic polymer of Formula V:

in which, A is absent, CH<sub>2</sub> or O; n is about 100 to about 5000; and

B is -OH, -OC(O)CH<sub>3</sub>, -CONH<sub>2</sub>, -CONHR, -CONR<sub>2</sub>, -OCH<sub>3</sub>, -SH, -SCH<sub>3</sub>,
 -COOR, -COSR, borane, boric acid, sulfone, amine oxide, or mixtures thereof;
 the neutral hydrophilic polymer being effective to substantially decrease ring
 formation upon drying of a spot less than or equal to about 300 μm diameter on a support.

35. (Withdrawn) The composition of claim 34, wherein A is absent, n is about 600 to about 1300, and B is -OH.

- 36. (Withdrawn) The composition of claim 34, wherein the neutral hydrophilic polymer comprises polyvinyl alcohol.
- 37. (Withdrawn) The composition of claim 36, wherein the polyvinyl alcohol comprises 88% hydrolyzed polyvinyl alcohol.
- 38. (Withdrawn) The composition of claim 36, wherein the polyvinyl alcohol comprises polyvinyl alcohol with a molecular weight of 31-51 kD.
- 39. (Withdrawn) The composition of claim 34, wherein the compound comprises nucleic acid.
- 40. (Withdrawn) The composition of claim 39, wherein the nucleic acid comprises DNA, RNA, or mixture thereof.
- 41. (Withdrawn) The composition of claim 34, further comprising anionic surfactant.
- 42. (Previously presented) A method of forming spots of a compound on a surface, the method comprising:

applying to the surface a composition comprising:

compound suitable for being immobilized on the surface; and an organic anion of formula I:  $R(X)_m(Y)_n$ ; in which:

R is alkyl, alkenyl, or alkynyl;

each X is independently carboxylate, phosphate, phosphonate, phosphinate, sulphate, sulphonate, thiocarboxylate, hydroxamate, or combination thereof;

each Y is independently amide, alcohol, ether, thiol, thioether, ester, thioester, borane, boric acid, metal complex;

m is 1-7; and

## n 0 or greater, and

forming a spot on the surface.

- 43. (Original) The method of claim 42, wherein the organic anion is effective to substantially decrease ring formation upon drying of a spot less than or equal to about 300  $\mu$ m diameter on a support.
- 44. (Original) The method of claim 42, wherein the composition further comprises a buffer effective for maintaining pH of aqueous composition at greater than or equal to about 7.5.
- 45. (Original) The method of claim 42, wherein applying comprises pin spotting or piezoelectric spotting.
- 46. (Withdrawn) A method of forming spots of a compound on a surface, the method comprising:

applying to the surface a composition comprising:

compound suitable for being immobilized on the surface; and neutral hydrophilic polymer of Formula V:

$$(A_{0,1}CH_2CH)_{\mathfrak{n}}$$

in which, A is absent, CH2 or O;

n is about 100 to about 5000; and

B is -OH, -OC(O)CH<sub>3</sub>, -CONH<sub>2</sub>, -CONH<sub>R</sub>, -CONR<sub>2</sub>, -OCH<sub>3</sub>, -SH, -SCH<sub>3</sub>, -COOR, -COSR, borane, boric acid, sulfone, amine oxide, or mixtures thereof; and

forming a spot on the surface.

47. (Withdrawn) The method of claim 46, wherein the organic anion is effective to substantially decrease ring formation upon drying of a spot less than or equal to about 300  $\mu$ m diameter on a support.

- 48. (Withdrawn) The method of claim 46, wherein the composition further comprises a buffer effective for maintaining pH of aqueous composition at greater than or equal to about 7.5.
- 49. (Withdrawn) The method of claim 46, wherein applying comprises pin spotting or piezoelectric spotting.
  - 50. (Withdrawn) An array of spots formed by the method of claim 42.
  - 51. (Withdrawn) An array of spots formed by the method of claim 56 46.
- 52. (Withdrawn) A plurality of spots on a solid support, one or more of the spots comprising:

compound suitable for being immobilized on support; and organic anion of formula:  $R(X)_m(Y)_n$ ; in which:

R is alkyl, alkenyl, or alkynyl;

each X is independently carboxylate, phosphate, phosphonate, phosphinate, sulphate, sulphonate, thiocarboxylate, hydroxamate, or combination thereof;

each Y is independently amide, alcohol, ether, thiol, thioether, ester, thioester, borane, boric acid, metal complex;

m is 1-7; and n is 0 or greater.

53. (Withdrawn) A plurality of spots on a solid support, one or more of the spots comprising:

compound suitable for being immobilized on support; and neutral hydrophilic polymer of Formula V:

in which, A is absent, CH<sub>2</sub> or O;

n is about 100 to about 5000; and

B is -OH, -OC(O)CH<sub>3</sub>, -CONH<sub>2</sub>, -CONHR, -CONR<sub>2</sub>, -OCH<sub>3</sub>, -SH, -SCH<sub>3</sub>,

-COOR, -COSR, borane, boric acid, sulfone, amine oxide, or mixtures thereof.

- 54. (Withdrawn) The organic anion of claims 1, 16, 42, or 52 wherein at least one Y is an amine.
- 55. (Withdrawn) The composition of claim 1, wherein the organic anion of formula I has the structure represented by formula III:

in which:

Z is -OH, -OPO<sub>3</sub> or -CH<sub>2</sub>-OPO<sub>3</sub>; and at least one Z is -OPO<sub>3</sub> or -CH<sub>2</sub>-OPO<sub>3</sub>; Y is -OH; and A is -CH-OPO<sub>3</sub> or O.

- 56. (Withdrawn) The composition of claim 55, wherein the organic anion is glucose-1-phosphate, glucose-6-phosphate, or mixture thereof.
  - 57. (Withdrawn) The composition of claim 1, wherein at least one X is an amine.